

United States Patent and Trademark Office



_	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/898,938	07/03/2001	Norbert Coenen	2209.879 (WSC-2130)	1947
	21878 75	590 10/16/2002			
		COVINGTON LOBDE	EXAMINER		
	BANK OF AM	100 N TRYON STREET BANK OF AMERICA CORPORATE CENTER CHARLOTTE, NC 28202-4006		LE, DANG D	
	CHARLOTTE,			ART UNIT	PAPER NUMBER
				7834	

DATE MAILED: 10/16/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Na Carlo		gm				
7	Application No.	Applicant(s)				
	09/898,938	COENEN, NORBERT				
Office Action Summary	Examiner	Art Unit				
	Dang D Le	2834				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1)⊠ Responsive to communication(s) filed on <u>29 August 2002</u> .						
2a)⊠ This action is FINAL . 2b)⊡ Th	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>1-7</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-7</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of: 1. Certified copies of the priority document	s have been received					
		tion No				
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) ☐ Acknowledgment is made of a claim for domesti	c priority under 35 U.S.C. § 119	(e) (to a provisional application).				
a) The translation of the foreign language pro	• •					
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	e e e e e e e e e e e e e e e e e e e	ry (PTO-413) Paper No(s) Patent Application (PTO-152)				

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-7 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 6 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Goldowsky.

Regarding claim 1, Goldowsky shows a rotor spinning device (Figure 12) comprising a contact less, passive, radial bearing (12 and 13) for the spinning rotor and a damping device (80) external the passive radial bearing for damping radially directed oscillations of the spinning rotor, the damping device comprising a sensor arrangement (86), a control arrangement (87) and an operating arrangement (80, 81), the operating arrangement having at least two stationary magnetic operating elements (81, 84) arranged to act at least at one active site directly on a magnetic element (12) fixedly connected with the rotor shaft (11) for rotation therewith, the rotating magnetic element comprising an operative element of the passive bearing of the spinning rotor.

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Regarding claim 6, it is noted that Goldowsky also shows the rotating magnetic element comprising a permanent magnet ring (12) enclosing the rotor shaft and the operating elements being arranged at an axial distance (left and right of center of 14 and 15) in front of the permanent magnet ring.

Regarding claim 7, it is noted that Goldowsky also shows the control device (Figure 13) comprising elements for an exclusively capacitive coupling of the signals generated by the sensor elements (86).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 2-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goldowsky in view of Nakazeki et al.

Regarding claim 2, Goldowsky shows all of the limitations of the claimed invention except for the sensor device at the active site comprising at least two sensor elements for detecting radial position deviations of the rotor shaft, and the sensor elements and the operating elements at the active site are arranged in a plane extending vertically in respect to the axis of rotation.

Nakazeki et al. show the sensor device at the active site comprising at least two sensor elements (5X, 5Y) for detecting radial position deviations of the rotor shaft, and the sensor elements and the operating elements at the active site are arranged in a

plane extending vertically in respect to the axis of rotation for the purpose of controlling the magnetic bearing device.

Since Goldowsky and Nakazeki et al. are all from the same field of endeavor; the purpose disclosed by one inventor would have been recognized in the pertinent art of the others.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to include the sensor device at the active site with at least two sensor elements for detecting radial position deviations of the rotor shaft, and the sensor elements and the operating elements at the active site are arranged in a plane extending vertically in respect to the axis of rotation as taught by Nakazeki et al. for the purpose discussed above.

Regarding claim 3, it is noted that Nakazeki et al. also show the operating elements (2x and opposite of 2y) being arranged with an angular offset in respect to the sensor elements of the active site.

Regarding claim 4, it is noted that Nakazeki et al. also show the two operating elements being arranged angularly offset by 90 degrees in respect to each other, and the two sensor elements are arranged angularly offset by 90 degrees in respect to each other.

Regarding claim 5, it is noted that Nakazeki et al. also show an additional operating element (opposite 2x and 2y) being assigned to each operating element and being located diametrically opposite in respect to the axis of rotation, and that each

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operating element and the additional operating element act in the same direction and with an essentially equal force on the rotating magnetic element.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Information on How to Contact USPTO

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dang D Le whose telephone number is (703) 305-0156. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703)

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872-9318 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

DDL October 11, 2002

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